

2002 Automotive Coatings Survey

(Refinish Coatings Only)

California Environmental Protection Agency

Air Resources Board

TABLE OF CONTENTS

2002 AUTOMOTIVE COATINGS SURVEY

SECTION AND TITLE	PAGE
I. PART A – SURVEY FORMS AND INSTRUCTIONS	1
• Confidential Information Submittal Form	2
• Survey Forms	3 – 7
• Survey Instructions	8 – 15
• Submitting Survey Forms or Data	16
II. PART B – SUPPLEMENTAL INFORMATION	17
• Definitions	18 – 22
• VOC Calculations and Conversion Factors	23 – 24
• Reactivity Bin Numbers for Aliphatic and Aromatic Hydrocarbon Solvents	25
• U.S. Resident Population	26
III. PART C – EXAMPLE OF COMPLETED SURVEY FORMS	27 - 32

SUBMITTAL OF FORMS

Please return the completed survey to the following address:

Regular Mail

California Air Resources Board
P.O. Box 2815
Sacramento, CA 95812
ATTN: SSD / Measures Assessment Branch
Automotive Coatings Survey

Overnight

California EPA Headquarters Building
Air Resources Board (6th Floor)
1001 I Street
Sacramento, CA 95814
ATTN: SSD / Measures Assessment Branch
Automotive Coatings Survey

ELECTRONIC SUBMITTAL OPTIONS

Electronic submittal options are available. Details can be obtained by contacting the ARB or by visiting our web site at “www.arb.ca.gov/coatings/auto/survey/2002survey.htm.” Additional survey packages can also be downloaded from this site.

QUESTIONS

If you have any questions or other requests please contact any of the following staff:

Name	Phone	Email
Jose Gomez, Manager	916-324-8033	jgomez@arb.ca.gov
Dave Mehl, Survey Lead	916-324-8177	dmehl@arb.ca.gov
Gary Mouradian	916-324-8175	gmouradi@arb.ca.gov
Mark Watkins	916-323-9687	mwatkins@arb.ca.gov

2002 Automotive Coatings Survey

PART A

SURVEY FORMS AND INSTRUCTIONS

DUE DATE: SEPTEMBER 30, 2002

2002 California Automotive Coatings Survey		
Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch		
Phone: 916.324.8023	FAX: 916.324.8026	www.arb.ca.gov/coatings/auto/survey/2002survey.htm

CONFIDENTIAL INFORMATION SUBMITTAL FORM

If you wish to designate any information contained in your survey data as **CONFIDENTIAL INFORMATION**, please provide the data requested below and return it with your completed survey forms.

In accordance with Title 17, California Code of Regulations (CCR), sections 91000 to 91022, and the California Public Records Act (Government Code Section 6250 et seq.), the information that a company provides to the Air Resources Board (ARB) may be released: (1) to the public upon request, except trade secrets which are not emission data or other information which is exempt from disclosure or the disclosure of which is prohibited by law; (2) to the Federal Environmental Protection Agency (EPA), which protects trade secrets as provided in Section 114(c) of the Clean Air Act and amendments thereto (42 USC 7401 et seq.) and in federal regulation; and, (3) to other public agencies provided that those agencies preserve the protections afforded information which is identified as a trade secret, or otherwise exempt from disclosure by law (Section 39660(e)).

Trade secrets as defined in Government Code Section 6254.7 are not public records and therefore will not be released to the public. However, the California Public Records Act provides that air pollution emission data are always public records, even if the data comes within the definition of trade secrets. On the other hand, the information used to calculate air pollution emissions may be withheld from the public if the information is a trade secret.

If any company believes that any of the information it provides is a trade secret or otherwise exempt from disclosure under any other provision of law, **it must identify the confidential information as such at the time of submission to the ARB and must provide the name, address, and telephone number of the individual to be consulted** if the ARB receives a request for disclosure or seeks to disclose the data claimed to be confidential. The ARB may ask the company to provide documentation of its claim of trade secret or exemption at a later date. Data identified as confidential will not be disclosed unless the ARB determines, in accordance with the above referenced regulations, that the data does not qualify for a legal exemption from disclosure. These regulations establish substantial safeguards before any such disclosure.

In accordance with the provisions of Title 17, California Code of Regulations, sections 91000 to 91022, and the California Public Records Act (Government Code Sections 6250 et seq.),

Company Name: _____ declares that only those portions ***specifically identified*** and submitted in response to the California Air Resources Board's information request on the survey are confidential "**trade secret**" information, and requests that it be protected as such from public disclosure. All inquiries pertaining to the confidentiality of this information should be directed to the following person:

Name (please print): _____

Signature: _____

Title: _____

Telephone #: _____

Mailing Address: _____

2002 California Automotive Coatings Survey

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FORM 1**General Information – Reporting Year 2001**

Company Name:		Web Site:	
Division:			
Address:			
City:	State:		Zip:
Contact Person:		Position:	
Phone:	FAX:	e-mail:	

- 1) Did your company manufacture and distribute coatings in 2001 (for use in California) for motor vehicles or mobile equipment, or coatings that you know to be used in those types of applications? **YES NO**
- 2) Did your company distribute coatings in 2001 (for use in California) manufactured by another company, which are for motor vehicles or mobile equipment, or that you know are used in those types of applications? **YES NO**
If yes, please list these companies along with a mailing address and contact person. (Please use a separate sheet of paper labeled as question 2.)
- 3) Did your company manufacture coatings for another company to distribute in 2001 that are for motor vehicles or mobile equipment, or that you know are used in those types of applications? **YES NO**
If yes, please list these companies along with a mailing address and contact person. (Please use a separate sheet of paper labeled as question 3.)
- 4) Is your company a wholly owned subsidiary of another company? **YES NO**
If yes, please list the name of the parent company along with a contact person's name and position, complete mailing address, telephone and facsimile numbers, and an e-mail address for the contact person. (Please use a separate sheet of paper labeled as question 4.)

If you answered "Yes" to question 1, 2 or 3 please complete the remainder of the survey prior to returning it to the ARB. If you answered "No" to all these questions, please return only this form.

CERTIFICATION by Authorized Official

I hereby certify that, to the best of my knowledge and belief, all information entered on Form 1 – General Information, Form 2 – Company Information, Form 3 – Product Information, Form 4 – Ingredient Information, and Form 5 Ready-To-Spray Information is complete and accurate.

Name:	Position:
Signature:	Date:

2002 California Automotive Coatings Survey

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FORM 2

Company Information – Reporting Year 2001

Type of Business (check all that apply) <input type="checkbox"/> Manufacturer <input type="checkbox"/> Importer <input type="checkbox"/> Retail Distributor <input type="checkbox"/> Wholesale Distributor <input type="checkbox"/> Private Label Manufacturer <input type="checkbox"/> Toll Manufacturer <input type="checkbox"/> Other (Specify):	Company Marketing Classification (check one) <input type="checkbox"/> International <input type="checkbox"/> National <input type="checkbox"/> Regional (e.g., western U.S.) list: <input type="checkbox"/> California Statewide <input type="checkbox"/> California Region (e.g. Southern California) list:
Company – Gross Annual Receipts (\$) for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 500,000 <input type="checkbox"/> 500,000 to 1 million <input type="checkbox"/> >1 million to 2 million <input type="checkbox"/> >2 million to 5 million <input type="checkbox"/> >5 million to 10 million <input type="checkbox"/> >10 million to 100 million <input type="checkbox"/> >100 million to 1 billion <input type="checkbox"/> >1 billion	Company – California Gross Annual Receipts (\$) for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 500,000 <input type="checkbox"/> 500,000 to 1 million <input type="checkbox"/> >1 million to 2 million <input type="checkbox"/> >2 million to 5 million <input type="checkbox"/> >5 million to 10 million <input type="checkbox"/> >10 million to 100 million <input type="checkbox"/> >100 million to 1 billion <input type="checkbox"/> >1 billion
Automotive Coatings – Gross Annual Receipts (\$) for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 500,000 <input type="checkbox"/> 500,000 to 1 million <input type="checkbox"/> >1 million to 2 million <input type="checkbox"/> >2 million to 5 million <input type="checkbox"/> >5 million to 10 million <input type="checkbox"/> >10 million to 100 million <input type="checkbox"/> >100 million to 1 billion <input type="checkbox"/> >1 billion	Automotive Coatings – California Gross Annual Receipts (\$) for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 500,000 <input type="checkbox"/> 500,000 to 1 million <input type="checkbox"/> >1 million to 2 million <input type="checkbox"/> >2 million to 5 million <input type="checkbox"/> >5 million to 10 million <input type="checkbox"/> >10 million to 100 million <input type="checkbox"/> >100 million to 1 billion <input type="checkbox"/> >1 billion
Employees for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 10 <input type="checkbox"/> 10 to 99 <input type="checkbox"/> 100 to 249 <input type="checkbox"/> 250 to 499 <input type="checkbox"/> 500 or more	Employees – California for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 10 <input type="checkbox"/> 10 to 99 <input type="checkbox"/> 100 to 249 <input type="checkbox"/> 250 to 499 <input type="checkbox"/> 500 or more
Automotive Coatings Employees for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 10 <input type="checkbox"/> 10 to 99 <input type="checkbox"/> 100 to 249 <input type="checkbox"/> 250 to 499 <input type="checkbox"/> 500 or more	Automotive Coatings Employees – California for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 10 <input type="checkbox"/> 10 to 99 <input type="checkbox"/> 100 to 249 <input type="checkbox"/> 250 to 499 <input type="checkbox"/> 500 or more
How did you determine California Year 2001 Sales Volume? (check all that apply) <input type="checkbox"/> Direct California retail sales <input type="checkbox"/> Prorated from national retail sales <input type="checkbox"/> Direct California wholesale distribution <input type="checkbox"/> Prorated from national wholesale distribution <input type="checkbox"/> Other (explain):	

2002 California Automotive Coatings Survey

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FORM 3**Product Information – Reporting Year 2001**

Entry # : *	
Product Code:	
Product Name:	
Brand and Product Line(s):	

Physical And Other Data

Type Code (10 – 60)	Specify (for codes 10, 20, 40 and 60 only)	Coverage (ft ² /gal)	Recommended Thickness (mil)	Water or Solvent Borne (W or S)	Density (lbs/gal)

Weight Percent				Volume Percent			
Solids	Volatile Material	Water	Exempts	Solids	Volatile Material	Water	Exempts

As Packaged	
VOC Actual (g/l)	VOC Regulatory - Less Water & Exempts (g/l)

2001 California Sales (gallons)

* Note: This entry # must also appear on your corresponding FORM 4.

Page _____ of _____ Enter the current page # out of the total pages submitted.

NOTE: Each FORM 3 must have a corresponding FORM 4.

Photocopy this page as necessary

2002 California Automotive Coatings Survey

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FORM 4

Ingredient Information – Reporting Year 2001

Entry # from FORM 3:

#	Ingredient	Bin # *	CAS #	wt % **
	Aggregated ingredients < 0.1 wt. %	N/A	N/A	
		Total of All Ingredients (Must Equal 100%)		

* For hydrocarbon solvents only. Refer to page 25 or contact solvent supplier for bin #.

** Enter the weight percent for each ingredient that is at least 0.1% of the total mass of the product. Toxic air contaminants (e.g., lead and nickel) should be reported to lower than 0.1% if known.

Page _____ of _____ Enter the current page # out of the total pages submitted.

NOTE: Each FORM 4 must have a corresponding FORM 3.

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FORM 5

Ready-To-Spray (RTS) Information – Reporting Year 2001

Note: RTS mixtures within a single product line may be grouped if the mixing ratios remain constant and all possible combinations are viable products.

For each combination of products listed in Form 3 that requires mixing to be RTS please list the following:

Ready-To-Spray Mixture #				
Mixing Components Entry #: (from Form 3)				
Mixing Ratio:				
Recommended Thickness (mil)				

Production Cost (\$/gal)

Minimum	Sales Weighted Average	Maximum

If grouping 4 or more RTS mixtures from the top table please complete both of the following tables. If reporting one RTS mixture or grouping 3 or less RTS mixtures, please complete just the appropriate number of columns of the first table.

	low	median	high
VOC regulatory			
Color			
Density			
Coverage			
VOC actual			

	Low	median	high
VOC actual			
Color			
Coverage			
Density			
VOC regulatory			

Page _____ of _____ Enter the current page # out of the total pages submitted.

Photocopy this page as necessary

2002 California Automotive Coatings Survey		
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Form 1 Instructions

General Information – Reporting Year 2001

The information requested on Form 1 will be used by the California Air Resources Board to determine what companies distribute motor vehicle and mobile equipment coatings (automotive coatings) for sale in California. These companies will be required to complete the survey, based on the coatings sold in calendar year 2001. If your company is not a paint manufacturer, but is listed as “manufactured for” or “distributed by” on the product label, you are responsible for completing the requested information in this survey. You are encouraged to coordinate your responses with the appropriate manufacturer of your product to avoid double reporting of data. Holding companies or subsidiaries may also need to complete this survey.

Company Name: The legal business name of your company. If you are completing this survey for more than one company, please submit different surveys for each company.

Web Site: The company web site address, for example, www.paintcompany.com.

Division: If the company has multiple divisions, please specify which division this survey was completed for.

Address: Enter street address or post office box of your company where mail is received.

City: The city where mail is received.

State: The state where mail is received.

Zip: Enter the postal zip code at which mail is received

Contact Person: Name of the person to be contacted if there are questions about survey responses.

Position: Business position of the contact person.

Phone: Telephone number of the contact person.

Fax: Fax number of the contact person.

e-mail: e-mail address of the contact person.

Please answer questions 1 through 4. List requested information where appropriate.

If you answered yes to question 1, 2 or 3, please also complete Forms 2, 3, 4 and 5. If you answered no to these questions, please return only the completed Form 1 to the ARB at the address listed on page 2.

Certification: Please have a responsible company officer (President, Treasurer, Secretary, or Vice-President of a principle business function) certify that the General Information (Form 1), Company Information (Form 2), Product Information (Form 3), Ingredient Information (Form 4), and Ready-To-Spray Information (Form 5) is complete and accurate. This person is to clearly print or type his name and business position, and sign and date the form where indicated.

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Form 2 Instructions

Company Information – Reporting Year 2001

Type of Business: Check all boxes that describe the types of business conducted by your company.

Manufacturer – A company that produces, packages, or repackages motor vehicle or mobile equipment coatings for sale or distribution in California.

Importer – A company that brings motor vehicle or mobile equipment coatings into the United States for sale or distribution within California.

Retail Distributor – A company who sells or supplies motor vehicle or mobile equipment coatings at the retail level.

Wholesale Distributor – A company who sells or supplies motor vehicle or mobile equipment coatings for the purpose of resale or distribution in commerce at the wholesale level.

Private Label Manufacturer – A company that manufactures motor vehicle or mobile equipment coatings for sale under another company's name.

Toll Manufacturer – A company that manufactures motor vehicle or mobile equipment coatings based on the formula of another company and places that company's name on the product label.

Company Marketing Classification: Check the box that best describes your company's primary marketing classification.

International – Two or more nations. For example, United States, Canada, and Mexico.

National – All of the United States.

Regional – A portion of the United States. For example, California, Oregon, and Arizona.

California Statewide – All of California.

California Local – A portion of California. For example, Southern California or the San Francisco Bay Area.

The information on annual receipts and employees should be provided for both the company and the automotive coatings unit, as appropriate.

Gross Annual Receipts: Check the box which identifies the gross annual receipts generated by your company. This means the total income of the company before expenses are deducted.

Gross Annual Receipts - California: Check the box which identifies the gross annual receipts generated by your company in California.

Employees: Check the box that indicates the total number of full-time equivalent employees of the company.

Employees - California: Check the box that identifies the number of full-time equivalent employees in California.

How did you determine California Year 2001 Sales Volume?: Check the box that best identifies the method used to determine California sales volume for use on Form 3.

2002 California Automotive Coatings Survey		
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Form 3 Instructions

Product Information – Reporting Year 2001

Entry # : Each Form 3 completed must be numbered sequentially, beginning with “1.” This entry # must also appear on your corresponding Form 4 and will be used in completing Form 5.

Product Code: Enter product code.

Product Name: Enter the product / label name for the product code above.

Product Line(s): Enter the product line(s) which the coating is used in.

Type Code: Enter the code from the Type Code table, on page 11 that best describes the coating.

Specify: If the Type Code entered was 10, 20, 40 or 60, please clarify/specify what type of coating it is.

Coverage: Specify the coverage of the coating when applied at the recommended thickness, in terms of square feet per gallon of coating.

Recommended Thickness: Specify the recommended thickness used in determining the coatings’ coverage, in mils.

Water or Solvent Borne: Note if the coating is solvent (by marking “S”) or water (by marking “W”) borne.

Density: Density of the coating in pounds per gallon (lbs/gal).

Weight Percent of Solids: Solids content of the coating expressed as a percentage of total coating weight.

Weight Percent of Volatile Material: Volatile material (VOC+water+exempts) content expressed as a percentage of total coating weight. See page 22 for the definition of VOC (volatile organic compound) and VOC content.

Weight Percent of Water: Water content as a percentage of total coating weight.

Weight Percent of Exempts: Exempt compounds content expressed as a percentage of total coating weight. See page 18 for definition of exempt compounds.

Volume Percent of Solids: Solids content of the coating expressed as a percentage of total coating volume.

Volume Percent of Volatile Material: Volatile material (VOC+water+exempts) content expressed as a percentage of total coating volume. See page 22 for the definition of VOC (volatile organic compound) and VOC content.

Volume Percent of Water: Water content expressed as a percentage of total coating volume.

Volume Percent of Exempts: Exempt compounds content expressed as a percentage of total coating volume. See page 18 for definition of exempt compounds.

VOC Actual: Also known as Material VOC. VOC content of coating, as supplied, in grams of VOC per liter of coating. This is the weight of all volatile materials less the weight of water and exempt compounds per the entire volume of the coating. This is NOT the same as VOC Regulatory. See “VOC Calculations” page 23.

VOC Regulatory (Less Water & Exempts): Also known as Coating VOC. VOC content of the coating, as supplied, in grams of VOC per liter of coating less water and exempt compounds. This may be determined from the formulation data or previously determined by EPA Method 24, 40 CFR Part 60, as amended in Federal Register Vol. 57, No. 133, July 10, 1992, or ASTM D 3960-92. See “VOC Calculations” page 23.

2001 California Sales: The volume, in gallons, of the coating sold in California in 2001.

2002 California Automotive Coatings Survey

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www.arb.ca.gov/coatings/auto/survey/2002survey.htm**Form 3 Instructions, Continued
Type Codes**

Coating Type	Code
Undercoat (specify)	10
primer	11
primer sealer	12
primer surfacer	13
pretreatment wash primer	14
precoat	15
ground coat	16
flexible primer	17
plastics primer	18
Color coat (specify)	20
single-stage	21
single-stage multicolor	22
multi-stage color coat	23
multi-stage multicolor coat	24
camouflage	25
metallic/iridescent	26
Clearcoat	30
Additive (specify)	40
reducer	41
hardener	42
catalyst	43
activator	44
extender	45
flattener	46
plasticizer	47
fish eye eliminator	48
accelerator	49
Truck bed coating	51
Underbody coating	52
Temporary protective coating	53
Uniform finish coating	54
Anti-glare/safety coating	55
Other (specify)	60

Please use the major category code if a coating does not fall within one of the more specific codes. For example, if a coating is an additive (uniform finish blender) which is not one of the specific additives listed, use code 40. "Uniform finish blender" would then be listed under "Specify."

2002 California Automotive Coatings Survey		
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Form 4 Instructions Ingredient Information – Reporting Year 2001

Form 4 requests product ingredient information. In this table provide all ingredients which are part of the product formulation. Complete one Form 4 for each Form 3 completed.

Entry # From Form 3: Enter the Entry # from corresponding Form 3.

#: Number each ingredient sequentially, beginning with “1.”

Ingredient: Enter the standard (IUPAC) chemical name of the ingredient. Chemical names must be distinguished from trade names, by labeling trade names with an asterisk prior to the name. For example, the desired chemical name of SD 40 Alcohol or ethyl alcohol is ethanol. Only enter the trade name of the ingredient if the chemical name is unknown. If the ingredient is proprietary or a mixture (e.g., petroleum distillates) identify the trade name and manufacturer / primary supplier.

Resin entries should be grouped by resin type instead of listing each specific resin composition. Report only the total weight percentage for each resin group. Please choose from the resin types in the table below. If the resin does not fit within one of these categories, please contact Dave Mehl at (916) 361-0342 or dmehl@arb.ca.gov to help you determine a resin type, for data consistency.

Resin Types		
Acrylic	Epoxy	Silicone, Silane, Siloxane
Acrylic Copolymer	Oleoresin	Styrene-butadiene
Alkyd	Phenolic	Urethane, Polyurethane
Amines, Amides	Polyester (Not Alkyd)	Polyvinyl Chloride (PVC)
Cellulosic	Polyvinyl Acetate (PVA)	Vinyl Toluene
Chlorinated Rubber	Shellac	Vinyl Acrylic Copolymer

NOTE: The volatile portions of resin solutions, colorants or additives must be listed as separate ingredient entries. For example, do not include the volatile portion of a resin solution as a solid.

Bin #: For aliphatic or aromatic hydrocarbon solvents enter the bin number that best represents the nature of the solvent from page 25.

CAS#: Enter the Chemical Abstract Service (CAS) number for the ingredient.

Weight % (of total material): Enter the percent by weight for each ingredient in the final product that is at least 0.1% of the total mass of the product. Toxic air contaminants (e.g., lead and nickel) should be reported to lower than 0.1% if known. If an ingredient is a mixture of known components, list the components separately with their individual weight percentages in the final product. If the components of a mixture cannot be determined, list the ingredient as a single entity. For example, you may not know the weight percentage of individual ingredients of petroleum distillates, resins, or biocides. In cases such as these identify the weight percent of the mixture.

Total of All Ingredients: The sum of all ingredients in the table must equal 100.00 percent by weight. If this value does not sum to 100.00, please recheck the information.

2002 California Automotive Coatings Survey

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www.arb.ca.gov/coatings/auto/survey/2002survey.htm

Form 5 Instructions

Ready-To-Spray Information – Reporting Year 2001

Ready-To-Spray Mixture#: Number entries sequentially, beginning with “1.”

Mixing Components: List entry #s from Form 3 for all components to be mixed together to create a Ready-To-Spray (RTS) coating, in the same order as the mixing ratio. RTS mixtures within a single product line may be grouped if the mixing ratios remain constant and all possible combinations are viable products.

Tints from within a product line can be grouped together for reporting ready-to-spray mixtures, instead of reporting for each individual color combination. When grouping tints within a product line, the mixing component listed would be the name of the product line and “tints,” e.g. “Supernova tints.” Please identify the relevant Form 3 entry #s for the “grouped” tints.

Example:

Ready-To-Spray Mixture #	2			
Mixing Components Entry #: (from Form 3)	Supernova tints, 4 – 53 & 56 – 60	92		
Mixing Ratio:	2	1		

Other components of a RTS coating can also be grouped, i.e. reducers, hardeners, or even a main component, such as primers. More than one category can be grouped on one form. For example, if the first column is a clear coat, the second column could be the various hardeners and the third column the reducers, similar to the example below. However, every possible combination represented in the grouping matrix must be an actual marketed RTS product. Please remember that it is only possible to have grouping on this form if the mix ratios are identical for every possible combination.

Example:

Ready-To-Spray Mixture #	3			
Mixing Components Entry #: (from Form 3)	5	10, 11, 12	20, 21, 22	
Mixing Ratio:	4	1	1	

The above table would yield 9 different post-mixing combinations: 5-10-20, 5-10-21, 5-10-22, 5-11-20, 5-11-21, 5-11-22, 5-12-20, 5-12-21, and 5-12-22.

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If not all of the above combinations are actual marketed combinations, then it cannot be grouped as above. For example if 5-11-20 and 5-11-21 are not marketed combinations then at least 2 Form 5s would need to be submitted, such as

Ready-To-Spray Mixture #	3			
Mixing Components Entry #: (from Form 3)	5	10, 11, 12	22	
Mixing Ratio:	4	1	1	

and

Ready-To-Spray Mixture #	4			
Mixing Components Entry #: (from Form 3)	5	10, 12	20, 21	
Mixing Ratio:	4	1	1	

Mixing Ratio: The relative ratio, by volume, of each component to be mixed to create a ready-to-spray coating, in the same order as the mixing components.

Recommended Thickness: Specify the recommended thickness used in determining the RTS coatings' coverage, in mils.

Production Cost, Minimum: Indicate the lowest production cost for a RTS mixture from the form, in dollars per gallon (\$/gal). Production cost includes the cost of materials plus labor.

Production Cost, Sales Weighted Average: Indicate the sales weighted average production cost of the RTS mixtures from the form, in dollars per gallon (\$/gal). Production cost includes the cost of materials plus labor.

Production Cost, Maximum: Indicate the highest production cost for a RTS mixture from the form, in dollars per gallon (\$/gal). Production cost includes the cost of materials plus labor.

For VOC actual and VOC regulatory report your lowest, median, and highest color. For each color reported, report the corresponding information on the coverage, density, and either VOC actual or VOC regulatory as appropriate. If grouping 4 or more RTS mixtures from the first table, complete both of the tables. If reporting one RTS mixture or grouping 3 or less RTS mixtures, complete just the appropriate number of columns of the first table.

Coverage: Specify the coverage of the coating when applied at the recommended thickness, in terms of square feet per gallon of coating.

2002 California Automotive Coatings Survey		
Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch		
Phone: 916.324.8023	FAX: 916.324.8026	www.arb.ca.gov/coatings/auto/survey/2002survey.htm

Density: Density of the coating in pounds per gallon (lbs/gal).

VOC Actual: Also known as Material VOC. VOC content of coating, as supplied, in grams of VOC per liter of coating. This is the weight of all volatile materials less the weight of water and exempt compounds per the entire volume of the coating. This is NOT the same as VOC Regulatory. See “VOC Calculations” page 23.

VOC Regulatory (Less Water & Exempts): Also known as Coating VOC. VOC content of the coating, as supplied, in grams of VOC per liter of coating less water and exempt compounds. This may be determined from the formulation data or previously determined by EPA Method 24, 40 CFR Part 60, as amended in Federal Register Vol. 57, No. 133, July 10, 1992, or ASTM D 3960-92. See “VOC Calculations” page 23.

2002 California Automotive Coatings Survey		
Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch		
Phone: 916.324.8023	FAX: 916.324.8026	www.arb.ca.gov/coatings/auto/survey/2002survey.htm

Submitting Survey Forms or Data

Option 1: For each form type, assemble the pages in numerical entry order, beginning with Form 1 and continuing through Form 5.

Option 2: Same as Option 1, except group each Form 4 with its corresponding Form 3.

Option 3: Submit Data Electronically.

Survey data may be submitted electronically. The file formats, in order of preference, are:

1. Microsoft Access
2. Microsoft Excel
3. ASCII tab delimited file

If you wish to submit survey data in any other electronic format, please contact us for additional information.

To obtain information on file formats visit www.arb.ca.gov/coatings/auto/survey/2002survey.htm

2002 Automotive Coatings Survey

PART B

SUPPLEMENTAL INFORMATION

2002 California Automotive Coatings Survey		
Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch		
Phone: 916.324.8023	FAX: 916.324.8026	www.arb.ca.gov/coatings/auto/survey/2002survey.htm

DEFINITION OF SURVEY TERMS

Accelerator: a substance that speeds a chemical reaction.

Activator: a necessary component used to provide a chemical reaction to cure paint.

Additive: a chemical substance added to a coating in relatively small amounts to impart or improve desirable properties. Examples include UV screeners, flow agents, defoamers, fish eye eliminators, etc.

Antiglare/Safety Coating: a coating which minimizes light reflection for safety purposes.

Basecoat: a pigmented coating which is the first coating applied as part of a multi-stage topcoat system.

Camouflage Coating: a coating applied on a motor vehicle or mobile equipment to conceal it from detection.

CAS (Chemical Abstracts Service): an organization that indexes information published in Chemical Abstracts by the American Chemical Society and provides index guides by which information about particular substances may be located in the abstracts.

CAS Registration Number: an assigned number used to identify a material. CAS assigns sequential numbers to identify specific chemicals. The CAS numbers have no chemical significance. The CAS number is useful in identifying all abstracts concerning that specific chemical.

Catalyst: a substance that enables a chemical reaction to proceed at a faster rate or under different conditions than otherwise possible.

Clearcoat: a coating which contains no pigments and is the final coating applied as part of a multistage topcoat system.

Coating: a material which is applied to a surface and which forms a film in order to beautify, preserve, repair, or protect such a surface.

Colorant: a concentrated pigment that is dispersed in water, solvent, and/or binder then added to a coating after packaging in sale units to produce the desired color.

Color Coating: an intermediate or final pigmented coating applied over a primer or OEM finish.

Coverage: the area a volume of paint will cover at a certain film thickness. In this survey, coverage will be expressed in terms of square feet per gallon of coating, when applied at the recommended film thickness.

Exempt Compound: the following compounds are considered exempt from being considered a VOC:

- methane;
- methylene chloride (dichloromethane);

2002 California Automotive Coatings Survey		
Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch		
Phone: 916.324.8023	FAX: 916.324.8026	www.arb.ca.gov/coatings/auto/survey/2002survey.htm

- 1,1,1-trichloroethane (methyl chloroform);
- trichlorofluoromethane (CFC-11);
- dichlorodifluoromethane (CFC-12);
- 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113);
- 1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114);
- chloropentafluoroethane (CFC-115);
- chlorodifluoromethane (HCFC-22);
- 1,1,1-trifluoro-2,2-dichloroethane (HCFC-123);
- 2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124);
- 1,1-dichloro-1-fluoroethane (HCFC-141b);
- 1-chloro-1,1-difluoroethane (HCFC-142b);
- trifluoromethane (HFC-23);
- pentafluoroethane (HFC-125);
- 1,1,2,2-tetrafluoroethane (HFC-134);
- 1,1,1,2-tetrafluoroethane (HFC-134a);
- 1,1,1-trifluoroethane (HFC-143a);
- 1,1-difluoroethane (HFC-152a);
- cyclic, branched, or linear completely methylated siloxanes;
- the following classes of perfluorocarbons:
 - (A) cyclic, branched, or linear, completely fluorinated alkanes;
 - (B) cyclic, branched, or linear, completely fluorinated ethers with no unsaturations;
 - (C) cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations; and
 - (D) sulfur-containing perfluorocarbons with no unsaturations and with the sulfur bonds only to carbon and fluorine; and
- the following low-reactive organic compounds which have been exempted by the U.S. EPA:
 - acetone;
 - ethane;
 - parachlorobenzotrifluoride (1-chloro-4-trifluoromethyl benzene);
 - perchloroethylene; and
 - methyl acetate.

Exempt compounds content of a coating shall be determined by South Coast Air Quality Management District (SCAQMD) Method 303-91 (Revised August 1996).

Extender: a substance added to a product as a diluent, adulterant, or modifier.

Fish Eye Eliminator: additive used in paint to prevent the occurrence of fish eyes on a fully painted surface.

Flattener: a substance added to a paint to make it lusterless.

Flexible Primer: a primer coating with the ability to withstand dimensional changes.

Groundcoat: an opaque, pigmented coating used under partially transparent finishes to cover a different-hued undercoat and used as part of a four-stage topcoat system.

2002 California Automotive Coatings Survey		
Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch		
Phone: 916.324.8023	FAX: 916.324.8026	www.arb.ca.gov/coatings/auto/survey/2002survey.htm

Hardener: a substance added to a paint or varnish to harden the film.

Highway: a way or place of whatever nature, publicly maintained and open to the public for purposes of vehicular travel. Highway includes street.

Metallic/Iridescent Topcoat: a topcoat which contains iridescent particles, composed of either metal as metallic particles or silicon as mica particles, in excess of 5 g/L (0.042 lb/gal) as applied, where such particles are visible in the dried film.

Midcoat: a semi-transparent coating which is the middle topcoat applied as part of a three-stage topcoat system.

Mix Ratio: the proportion of ingredients to be blended together to make a ready-to-spray coating. For example, a clearcoat with a mix ratio of 4:1 requires the mixing of 4 parts of clearcoat with 1 part of activator. Mix ratios are normally volumetric.

Mobile Equipment: any equipment that is designed to be physically capable of being driven or drawn upon rails or a roadway, except for motor vehicles, and components for and from such equipment. Examples of mobile equipment include mobile cranes; bulldozers; concrete mixers; tractors, plows; pesticide sprayers; street cleaners; golf carts; hauling equipment used inside and around an airport, dock, depot, and industrial and commercial plants; trains; railcars; truck trailers; implements of husbandry; aircraft ground support equipment; all terrain vehicles; self-propelled wheelchairs, invalid tricycles, and invalid quadricycles.

Motor Vehicle: a vehicle which is self-propelled and which is physically capable of being driven on a highway.

Multi-Color Coating: a coating that is packaged in a single container and that exhibits more than one color when applied in a single coat.

Multi-Stage Color Coating: the basecoat/midcoat portion of a multi-stage topcoat system.

Multi-Stage Multicolor Coating: a multi-stage topcoat system in which the basecoat portion is a multi-colored topcoat.

Multi-Stage Topcoat System: any basecoat/clearcoat topcoat system or any three-stage topcoat system, manufactured as a system, and used as specified by the manufacturer.

Pigment: dry coloring matter, usually an insoluble powder to be mixed with a base, such as oil or water, to make paint and similar products.

Plastics Primer: a primer designed to provide maximum adhesion over plastic parts, both exterior and interior.

Plasticizer: a chemical added to rubbers and resins to impart flexibility, workability, or stretchability.

2002 California Automotive Coatings Survey		
Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch		
Phone: 916.324.8023	FAX: 916.324.8026	www.arb.ca.gov/coatings/auto/survey/2002survey.htm

Precoat: any coating which is applied to bare metal primarily to deactivate the metal surface prior to application of a subsequent water-based primer surfacer.

Pretreatment Coating: a coating which contains no more than 16 percent solids, by weight, and at least 0.5 percent acid, by weight, (when tested in accordance with ASTM Designation D 1613-96). It is used to provide surface etching, and is applied directly to bare metal surfaces to provide corrosion resistance and promote adhesion for subsequent coatings.

Pretreatment Wash Primer: any coating which contains a minimum of 0.5 percent acid, by weight, is necessary to provide surface etching, and is applied directly to bare metal surfaces to provide corrosion resistance and adhesion.

Primer: a coating labeled and formulated for application to a substrate to provide a firm bond between the substrate and subsequent coats and to provide corrosion resistance.

Primer Sealer: a coating applied prior to the application of a topcoat for the purpose of color uniformity, or to promote the ability of an underlying coating to resist penetration by the topcoat.

Primer Surfacer: a coating applied for the purpose of corrosion resistance or adhesion, and which promotes a uniform surface by filling in surface imperfections.

Ready-To-Spray (RTS): describes a coating that has been properly mixed with all necessary components and is ready to be applied to a substrate.

Reducer: a solvent used to thin (reduce the viscosity of) a coating.

Refinishing: any coating of vehicles, their parts and components, or mobile equipment, including partial body collision repairs, for the purpose of protection or beautification and which is subsequent to the original coating applied at an Original Equipment Manufacturing (OEM) plant coating assembly line.

Sealer: a coating labeled and formulated for application to a substrate for one or more of the following purposes: to prevent subsequent coatings from being absorbed by the substrate, or to prevent harm to subsequent coatings by materials in the substrate.

Single-Stage Coating: a coating that is ready for application as supplied to form an acceptable dry film.

Single-Stage Multicolor Coating: coatings which exhibit more than one color when applied and which are packaged in a single container and applied in a single coat.

Temporary Protective Coating: a coating applied for the purpose of protecting adjacent areas from being painted by overspray. The temporary protective coating is removed after primer or topcoat application.

Topcoat: a color coating applied over any coating, for the purpose of appearance, identification, or protection.

2002 California Automotive Coatings Survey		
Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch		
Phone: 916.324.8023	FAX: 916.324.8026	www.arb.ca.gov/coatings/auto/survey/2002survey.htm

Truck Bed Coating: any coating applied to a truck bed for the purpose of protecting it from surface abrasion, rust and corrosion.

Underbody Coating: any coating applied to wheel wells, the inside of door panels or fenders, the underside of a trunk or hood, or the underside of the motor vehicle itself for the purpose of sound deadening or protection.

Undercoat: any coating applied prior to the application of a topcoat for the purpose of corrosion resistance and/or adhesion of the topcoat.

Uniform Finish Coating: any coating which is applied for the purpose of blending a paint overspray area of a repaired topcoat to match the appearance of an adjacent existing topcoat.

Vehicle: a device by which any person or property may be propelled, moved, or drawn upon a highway, excepting a device moved exclusively by human power or used exclusively upon stationary rails or tracks.

Volatile Organic Compound (VOC): any volatile compound containing at least one atom of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds.

VOC Content: the weight of VOC per volume of coating, calculated according to the procedures specified in "VOC Calculations and Conversions." See "VOC Calculations" page 23.

2002 California Automotive Coatings Survey

Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch

Phone: 916.324.8023

FAX: 916.324.8026

www.arb.ca.gov/coatings/auto/survey/2002survey.htm

VOC CALCULATIONS

VOC Content

The following equations can be used to calculate entries for Form 3.

$$\text{VOC}_{\text{Actual}} = \frac{W_{vm} - W_w - W_e}{V_c}$$

(Also known as Material VOC)

$$\text{VOC}_{\text{Regulatory}} = \frac{W_{vm} - W_w - W_e}{V_c - V_w - V_e}$$

(Also known as Coating VOC)

Where:

W_{vm} = Total weight of volatile materials (VOC+water+exempt compounds) in the coating, in grams

W_w = Weight of water in the coating, in grams

W_e = Weight of exempt compounds in the coating, in grams

V_c = Total volume of the coating, in liters

V_w = Volume of water in the coating, in liters

V_e = Volume of exempt compounds in the coating, in liters

Note: If you are using BatchMaster, Material VOC and Coating VOC can be found in MSDS / Compliance (Section III – Physical / Chemical Characteristics).

VOC Regulatory After Recommended Thinning

The following equation can be used to calculate VOC Regulatory after the coatings are thinned with VOC containing solvents.

$$\text{VOC}_{\text{Regulatory (After Recommended Thinning)}} = \frac{\text{Volume}_{\text{Coating}} \times \text{VOC}_{\text{Regulatory}} + \text{Volume}_{\text{Thinner}} \times \text{VOC}_{\text{Thinner}}}{\text{Volume}_{\text{Coating}} + \text{Volume}_{\text{Thinner}}}$$

Percent by Volume Solids of Coating

The following are two equations that can be used to calculate the percent volume solids of coating. The choice of equation depends on the type of information that is known about the coating.

- 1) If the weight and density of all of the solid (nonvolatile) materials are known, then the following equation may be used:

$$\% \text{ by Volume Solids of Coating} = \frac{\text{Weight of Solids}}{\text{Density of Solids} \times \text{Volume of Coating Material}} \times 100$$

2002 California Automotive Coatings Survey

Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch

Phone: 916.324.8023

FAX: 916.324.8026

www.arb.ca.gov/coatings/auto/survey/2002survey.htm

- 2) If instead, only the volatile components of a coating (VOC, water and exempt compounds) are known, the percent volume of solids may be estimated by the following equation.

$$\% \text{ by Volume of Solids of Coating} = \left(1 - \frac{W_w}{D_w \times V_c} - \frac{W_{voc}}{D_{voc} \times V_c} - \frac{W_e}{D_e \times V_c} \right) \times 100$$

Where:

W_w = Weight of water in the coating, in grams D_w = Density of water, in grams per liter

W_{voc} = Weight of VOC in the coating, in grams D_{voc} = Density of VOC, in grams per liter

W_e = Weight of exempt compounds in the coating, in grams D_e = Density of exempt compounds, in grams per liter

V_c = Total volume of coating in liters

2002 California Automotive Coatings Survey

Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch

Phone: 916.324.8023

FAX: 916.324.8026

www.arb.ca.gov/coatings/auto/survey/2002survey.htm

REACTIVITY BIN NUMBERS FOR ALIPHATIC AND AROMATIC HYDROCARBON SOLVENTS

(From the Air Resources Board's Aerosol Coating Products Regulation)

Aliphatic Hydrocarbon Solvents

Bin	Average Boiling Point* (degrees F)	Criteria	MIR Value
1	80-205	Alkanes (< 2% Aromatics)	2.08
2	80-205	N- & Iso-Alkanes (≥ 90% and < 2% Aromatics)	1.59
3	80-205	Cyclo-Alkanes (≥ 90% and < 2% Aromatics)	2.52
4	80-205	Alkanes (2 to < 8% Aromatics)	2.24
5	80-205	Alkanes (8 to 22% Aromatics)	2.56
6	>205-340	Alkanes (< 2% Aromatics)	1.41
7	>205-340	N- & Iso-Alkanes (≥ 90% and < 2% Aromatics)	1.17
8	>205-340	Cyclo-Alkanes (≥ 90% and < 2% Aromatics)	1.65
9	>205-340	Alkanes (2 to < 8% Aromatics)	1.62
10	>205-340	Alkanes (8 to 22% Aromatics)	2.03
11	>340-460	Alkanes (< 2% Aromatics)	0.91
12	>340-460	N- & Iso-Alkanes (≥ 90% and < 2% Aromatics)	0.81
13	>340-460	Cyclo-Alkanes (≥ 90% and < 2% Aromatics)	1.01
14	>340-460	Alkanes (2 to < 8% Aromatics)	1.21
15	>340-460	Alkanes (8 to 22% Aromatics)	1.82
16	>460-580	Alkanes (< 2% Aromatics)	0.57
17	>460-580	N- & Iso-Alkanes (≥ 90% and < 2% Aromatics)	0.51
18	>460-580	Cyclo-Alkanes (≥ 90% and < 2% Aromatics)	0.63
19	>460-580	Alkanes (2 to < 8% Aromatics)	0.88
20	>460-580	Alkanes (8 to 22% Aromatics)	1.49

*Average Boiling Point = (Initial Boiling Point + Dry Point) / 2

Aromatic Hydrocarbon Solvents

Bin	Boiling Range (degrees F)	Criteria	MIR Value
21	280-290	Aromatic Content (≥98%)	7.37
22	320-350	Aromatic Content (≥98%)	7.51
23	355-420	Aromatic Content (≥98%)	8.07
24	450-535	Aromatic Content (≥98%)	5.00

Source: Title 17, California Code of Regulations, Article 3, Aerosol Coating Products, Section 94701

Additional details regarding the Aerosol Coating Products Regulation can be found at the following web site:

["www.arb.ca.gov/regact/conspro/aerocoat/aerocoat.htm"](http://www.arb.ca.gov/regact/conspro/aerocoat/aerocoat.htm)

Specific information regarding the table on this page can be found in Chapter VI, Page 57, of the Staff Report which is also available at the web site identified above.

2002 California Automotive Coatings Survey

Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch

Phone: 916.324.8023

FAX: 916.324.8026

www.arb.ca.gov/coatings/auto/survey/2002survey.htm

U.S. RESIDENT POPULATION (As of April 1, 2000)

United States Total = 281,422,000

STATE	RESIDENTS	%	RANK
Alabama	4,447,000	1.6	23
Alaska	627,000	0.2	48
Arizona	5,131,000	1.8	20
Arkansas	2,673,000	0.9	33
California	33,872,000	12.0	1
Colorado	4,301,000	1.5	24
Connecticut	3,406,000	1.2	29
Delaware	784,000	0.3	45
District of Columbia	572,000	0.2	X
Florida	15,982,000	5.7	4
Georgia	8,186,000	2.9	10
Hawaii	1,212,000	0.4	42
Idaho	1,294,000	0.5	39
Illinois	12,419,000	4.4	5
Indiana	6,080,000	2.2	14
Iowa	2,926,000	1.0	30
Kansas	2,688,000	1.0	32
Kentucky	4,042,000	1.4	25
Louisiana	4,469,000	1.6	22
Maine	1,275,000	0.5	40
Maryland	5,296,000	1.9	19
Massachusetts	6,349,000	2.3	13
Michigan	9,938,000	3.5	8
Minnesota	4,919,000	1.7	21
Mississippi	2,845,000	1.0	31
Missouri	5,595,000	2.0	17

STATE	RESIDENTS	%	RANK
Montana	902,000	0.3	44
Nebraska	1,711,000	0.6	38
Nevada	1,998,000	0.7	35
New Hampshire	1,236,000	0.4	41
New Jersey	8,414,000	3.0	9
New Mexico	1,819,000	0.6	36
New York	18,976,000	6.7	3
North Carolina	8,049,000	2.9	11
North Dakota	642,000	0.2	47
Ohio	11,353,000	4.0	7
Oklahoma	3,451,000	1.2	27
Oregon	3,421,000	1.2	28
Pennsylvania	12,281,000	4.4	6
Rhode Island	1,048,000	0.4	43
South Carolina	4,012,000	1.4	26
South Dakota	755,000	0.3	46
Tennessee	5,689,000	2.0	16
Texas	20,852,000	7.4	2
Utah	2,233,000	0.8	34
Vermont	609,000	0.2	49
Virginia	7,079,000	2.5	12
Washington	5,894,000	2.1	15
West Virginia	1,808,000	0.6	37
Wisconsin	5,364,000	1.9	18
Wyoming	494,000	0.2	50

X = Not Applicable

Source: U.S. Census Bureau <http://www.census.gov/statab/ranks/rank01.txt>

2002 Automotive Coatings Survey

PART C

EXAMPLE OF COMPLETED SURVEY FORMS

(The information contained in the following examples is not intended to reflect any actual product(s) ever marketed or any real company.)

2002 California Automotive Coatings Survey

Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch

Phone: 916.324.8023

FAX: 916.324.8026

www.arb.ca.gov/coatings/auto/survey/2002survey.htm**FORM 1****General Information – Reporting Year 2001**

Company Name: DKM, Inc.		Web Site: www.dkminc.com
Division: Coatings		
Address: 8528 Fallen Leaf Rd.		
City: Sacramento	State: CA	Zip: 95826
Contact Person: Kevin McKinsey		Position: Chief Chemist
Phone: 916-555-5555	FAX: 916-555-1212	e-mail: kevinm@dkminc.com

- 1) Did your company manufacture and distribute coatings in 2001 (for use in California) for motor vehicles or mobile equipment, or coatings that you know to be used in those types of applications? **YES** **NO**
- 2) Did your company distribute coatings in 2001 (for use in California) manufactured by another company, which are for motor vehicles or mobile equipment, or that you know are used in those types of applications? **YES** **NO**
If yes, please list these companies along with a mailing address and contact person. (Please use a separate sheet of paper labeled as question 2.)
- 3) Did your company manufacture coatings for another company to distribute in 2001 that are for motor vehicles or mobile equipment, or that you know are used in those types of applications? **YES** **NO**
If yes, please list these companies along with a mailing address and contact person. (Please use a separate sheet of paper labeled as question 3.)
- 4) Is your company a wholly owned subsidiary of another company? **YES** **NO**
If yes, please list the name of the parent company along with a contact person's name and position, complete mailing address, telephone and facsimile numbers, and an e-mail address for the contact person. (Please use a separate sheet of paper labeled as question 4.)

If you answered "Yes" to question 1, 2 or 3 please complete the remainder of the survey prior to returning it to the ARB. If you answered "No" to all these questions, please return this form only.

CERTIFICATION by Authorized Official

I hereby certify that, to the best of my knowledge and belief, all information entered on Form 1 – General Information, Form 2 – Company Information, Form 3 – Product Information, Form 4 – Ingredient Information, and Form 5 Ready-To-Spray Information is complete and accurate.

Name: Daniel K. Mulligen	Position: President & CEO
Signature:	Date: August 3, 2002

2002 California Automotive Coatings Survey

Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch

Phone: 916.324.8023

FAX: 916.324.8026

www.arb.ca.gov/coatings/auto/survey/2002survey.htm

FORM 2

Company Information – Reporting Year 2001

Type of Business (check all that apply) <input checked="" type="checkbox"/> Manufacturer <input type="checkbox"/> Importer <input type="checkbox"/> Retail Distributor <input type="checkbox"/> Wholesale Distributor <input type="checkbox"/> Private Label Manufacturer <input type="checkbox"/> Toll Manufacturer <input type="checkbox"/> Other (Specify):	Company Marketing Classification (check one) <input type="checkbox"/> International <input checked="" type="checkbox"/> National <input type="checkbox"/> Regional (e.g., western U.S.) list: <input type="checkbox"/> California Statewide <input type="checkbox"/> California Region (e.g. South Coast) list:
Company – Gross Annual Receipts (\$) for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 500,000 <input type="checkbox"/> 500,000 to 1 million <input type="checkbox"/> >1 million to 2 million <input checked="" type="checkbox"/> >2 million to 5 million <input type="checkbox"/> >5 million to 10 million <input type="checkbox"/> >10 million to 100 million <input type="checkbox"/> >100 million to 1 billion <input type="checkbox"/> >1 billion	Company – California Gross Annual Receipts (\$) for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 500,000 <input checked="" type="checkbox"/> 500,000 to 1 million <input type="checkbox"/> >1 million to 2 million <input type="checkbox"/> >2 million to 5 million <input type="checkbox"/> >5 million to 10 million <input type="checkbox"/> >10 million to 100 million <input type="checkbox"/> >100 million to 1 billion <input type="checkbox"/> >1 billion
Automotive Coatings – Gross Annual Receipts (\$) for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 500,000 <input checked="" type="checkbox"/> 500,000 to 1 million <input type="checkbox"/> >1 million to 2 million <input type="checkbox"/> >2 million to 5 million <input type="checkbox"/> >5 million to 10 million <input type="checkbox"/> >10 million to 100 million <input type="checkbox"/> >100 million to 1 billion <input type="checkbox"/> >1 billion	Automotive Coatings – California Gross Annual Receipts (\$) for Calendar Year 2001 (check one) <input checked="" type="checkbox"/> Less than 500,000 <input type="checkbox"/> 500,000 to 1 million <input type="checkbox"/> >1 million to 2 million <input type="checkbox"/> >2 million to 5 million <input type="checkbox"/> >5 million to 10 million <input type="checkbox"/> >10 million to 100 million <input type="checkbox"/> >100 million to 1 billion <input type="checkbox"/> >1 billion
Employees for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 10 <input checked="" type="checkbox"/> 10 to 99 <input type="checkbox"/> 100 to 249 <input type="checkbox"/> 250 to 499 <input type="checkbox"/> 500 or more	Employees – California for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 10 <input checked="" type="checkbox"/> 10 to 99 <input type="checkbox"/> 100 to 249 <input type="checkbox"/> 250 to 499 <input type="checkbox"/> 500 or more
Automotive Coatings Employees for Calendar Year 2001 (check one) <input type="checkbox"/> Less than 10 <input checked="" type="checkbox"/> 10 to 99 <input type="checkbox"/> 100 to 249 <input type="checkbox"/> 250 to 499 <input type="checkbox"/> 500 or more	Automotive Coatings Employees – California for Calendar Year 2001 (check one) <input checked="" type="checkbox"/> Less than 10 <input type="checkbox"/> 10 to 99 <input type="checkbox"/> 100 to 249 <input type="checkbox"/> 250 to 499 <input type="checkbox"/> 500 or more
How did you determine California Year 2001 Sales Volume? (check all that apply) <input type="checkbox"/> Direct California retail sales <input checked="" type="checkbox"/> Direct California wholesale distribution <input type="checkbox"/> Other (explain): <input type="checkbox"/> Prorated from national retail sales <input type="checkbox"/> Prorated from national wholesale distribution	

2002 California Automotive Coatings Survey

Air Resources Board, P.O. Box 2815 - Sacramento, CA 95812 - Attention: Stationary Source Division, Measures Assessment Branch

Phone: 916.324.8023

FAX: 916.324.8026

www.arb.ca.gov/coatings/auto/survey/2002survey.htm

FORM 3

Product Information – Reporting Year 2001

Entry # : *	9
Product Code:	K5P3
Product Name:	Goldfinch Yellow Tint
Brand and Product Line(s):	Everwear - Supernova and Quasar

Physical And Other Data

Type Code (10 – 60)	Specify (for codes 10, 20, 40 and 60 only)	Coverage (ft ² /gal)	Recommended Thickness (mil)	Water or Solvent Borne (W or S)	Density (lbs/gal)
23		286	2	S	9.27

Weight Percent				Volume Percent			
Solids	Volatile Material	Water	Exempts	Solids	Volatile Material	Water	Exempts
51.69	48.31	4.1	2.5	35.68	64.32	4.55	3.52

As Packaged

VOC Actual (g/l)	VOC Regulatory - Less Water & Exempts (g/l)
453	492

2001 California Sales (gallons)

1,245

* Note: This entry # must also appear on your corresponding FORM 4.

Page ____3__ of ____784____ Enter the current page # out of the total pages submitted.

NOTE: Each FORM 3 must have a corresponding FORM 4.

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FORM 4

Ingredient Information – Reporting Year 2001

Entry # from FORM 3: 9

#	Ingredient	Bin #	CAS #	wt %*
1	acrylic resin			2.73
2	alkyd resin			43.26
3	alkanes	9		19.4
4	methyl ethyl ketone		78-93-3	5.24
5	acetone		67-64-1	2.5
6	iron oxide		1332-37-2	0.26
7	toluene		108-88-3	3.61
8	water			4.1
9	p-xylene		1330-20-7	8.28
10	m-xylene		1330-20-7	2.33
11	o-xylene		1330-20-7	0.56
12	ethyl benzene		100-41-4	1.33
13	titanium dioxide		13463-67-7	5.31
	Aggregated ingredients < 0.1 wt. %	N/A	N/A	1.13
			Total of All Ingredients (Must Equal 100%)	100.0

* Enter the weight percent for each ingredient that is at least 0.1% of the total mass of the product. Toxic air contaminants (e.g., lead and nickel) should be reported to lower than 0.1% if known.

Page ___145___ of ___784___ Enter the current page # out of the total pages submitted.

NOTE: Each FORM 4 must have a corresponding FORM 3.

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FORM 5

Ready-To-Spray (RTS) Information – Reporting Year 2001

Note: RTS mixtures within a single product line may be grouped if the mixing ratios remain constant and all possible combinations are viable products.

For each combination of products listed in Form 3 that requires mixing to be RTS please list the following:

Ready-To-Spray Entry #	4			
Mixing Components Entry #: (from Form 3)	super bright tints (9-72)	75,76,77	92,93,94	
Mixing Ratio:	4	1	1	
Recommended Thickness (mil)	2			

Production Cost (\$/gal)		
Minimum	Sales Weighted Average	Maximum
50.02	66.23	92.81

If grouping 4 or more RTS mixtures from the top table please complete both of the following tables. If reporting one RTS mixture or grouping 3 or less RTS mixtures, please complete just the appropriate number of columns of the first table.

	low	median	high
VOC regulatory	372	384	510
Color	dunn	dolphin gray	rainbow yellow
Coverage	141	130	106
Density	12.01	9.32	9.46
VOC actual	360	384	408

	Low	median	high
VOC actual	324	372	468
Color	vanilla white	aztec yellow	flamingo pink
Coverage	108	122	113
Density	11.15	9.88	9.37
VOC regulatory	336	379	492

Page 692 of 784 Enter the current page # out of the total pages submitted.

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